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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,699	05/25/2006	Shin Masaoka	1217-061625	5404
	7590 10/14/200 AW FIRM, P.C.	8	EXAMINER	
700 KOPPERS	BUILDING		NWAONICHA, CHUKWUMA O	
436 SEVENTH AVENUE PITTSBURGH, PA 15219			ART UNIT	PAPER NUMBER
			1621	
			MAIL DATE	DELIVERY MODE
			10/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/580,699	MASAOKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	CHUKWUMA O. NWAONICHA	1621			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time.	J lely filed			
 Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	cause the application to become ABANDONE	O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 11 Ju This action is FINAL . 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
 4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 1-6 is/are allowed. 6) ☐ Claim(s) 7-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the correction of the orange replacement drawing sheet (s) including the orange replacement draw	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ite			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/11/2008.	6) Other:	atom ripphoduori			

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DETAILED ACTION

Current Status

1. This action is responsive to Applicants' amendment of 11 July 2008.

2. Receipt and entry of Applicants' amendment is acknowledged.

3. Claims 1-16 are pending in the application.

The objection of claims 8-10 is withdrawn following Applicants amendments.

The 102 rejection of claims 7 and 11 is withdrawn following Applicants amendments.

The allowability of claim 1-6 is maintained for the reason stated in the previous Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 12-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12-16 are indefinite because of the word "combination". It is not clear if Applicants are claiming a compound or a composition. Correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 8-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Gill et al., {Transition metal-carbon bonds. XXXIII. Internal metalations of secondary and tertiary carbon atoms by platinum(II) and palladium(II) Inorganic Chemistry (1972-1999) (1973), (3), 270-8}.

Gill et al. disclose applicants claimed compounds as shown below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 7-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinashi et al., {JP 62149721}.

Applicants claim a phosphonium borate of formula I; wherein all the variables are as defined in the claims.

$$(R^1)(R^2)(R^3)PH\cdot BAr_4$$

formula I

<u>Determination of the scope and content of the prior art (M.P.E.P. §2141.01)</u>

Kinashi et al. teach a phosphonium borate compound of formula II; in which the variables R_1 , R_2 and R_3 are C_2 - C_{10} alkyl groups.

$$\begin{bmatrix} R_1 \\ R_2 - P - H \end{bmatrix}^+ \begin{bmatrix} B + O \\ R_3 \end{bmatrix}$$

formula II

Ascertainment of the difference between the prior art and the claims (M.P.E.P.. §2141.02)

Kinashi et al. phosphonium borate compound differs from the instantly claimed phosphonium borate compound of formula I in that Kinashi et al. phosphonium borate compound is a subgenus of the instantly claimed phosphonium borate compound of

formula I. Specifically, applicants claim a phosphonium borate compound of formula I wherein the variables R_1 , R_2 and R_3 are C_1 - C_{20} alkyl groups while Kinashi et al. teach a phosphonium borate compound wherein the variables R_1 , R_2 and R_3 are C_2 - C_{10} alkyl groups.

<u>Finding of prima facie obviousness--rational and motivation (M.P.E.P.. §2142-</u>2143)

The instantly claimed phosphonium borate compound of formula I is obvious in view of the teaching of Kinashi et al.

One of ordinary skill in the art would have a reasonable expectation of success in practicing the instant invention by varying the substituents on the genus of Kinashi et al. to arrive at the instantly claimed phosphonium borate compound of formula I. Said person would have been motivated to practice the teaching of the reference cited because it demonstrates that phosphonium borate compound are useful in industrial application. The instantly claimed invention would therefore have been obvious to one of ordinary skill in the art.

Applicants' amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is 571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Sullivan can be reached on 571-272-0779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Sikarl A. Witherspoon/ Primary Examiner, Art Unit 1621

(for)

Daniel Sullivan
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Technology Center 1600